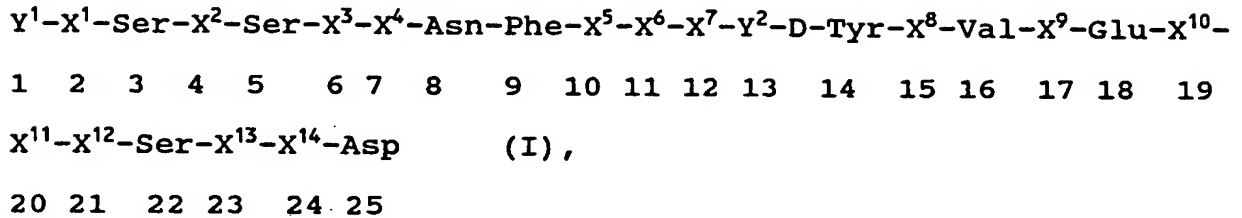


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Claims

1. Peptides of general formula I



in which

- Y^1 is Phe, Lys, Cys and Orn, and
 Y^2 is Asp, Cys and Glu, and Y^1 also has the meaning of Y^2 , and Y^2 has the meaning of Y^1 , whereby Y^1 and Y^2 are linked to one another via a side chain or a β -turn mimetic agent, and
 X^{1-14} represents any amino acid, which can be connected to one another via side chains.

2. Peptides of general formula I, according to claim 1, in which

- Y^1 is Phe, Lys, Cys and Orn, and
 Y^2 is Asp, Cys and Glu, and Y^1 also has the meaning of Y^2 , and Y^2 has the meaning of Y^1 , whereby Y^1 and Y^2 are linked to one another via a side chain or a β -turn mimetic agent, and
 X^{1-14} is Ala, Val, Leu, Ile, Pro, Phe, Trp, Met, Gly, Ser, Thr, Cys, Tyr, Asn, Gln, Asp, Glu, Lys, Arg, His, Orn, Cit, β -Ala, homo-Cys, homo-Ser, Gaba, Can, β -CN-Ala,

OH-Pro, OH-Lys, N-Met-Lys, Met-His, desmosine and djenkolic acid, which can be connected to one another via side chains.

3. Peptides of general formula I, according to claims 1-2, in which

Y^1 is Phe, Lys, Cys and Orn, and

Y^2 is Asp, Cys and Glu, and Y^1 also has the meaning of Y^2 , and Y^2 has the meaning of Y^1 , whereby Y^1 and Y^2 are linked to one another via a side chain or a β -turn mimetic agent, and

X^{1-14} is Ala, Val, Leu, Ile, Pro, Phe, Trp, Met, Gly, Ser, Thr, Cys, Tyr, Asn, Gln, Asp, Glu, Lys, Arg, His, Orn, and Cit, which can be connected to one another via side chains.

4. Peptides of general formula I, according to claims 1-3, in which

Y^1 is Lys, Cys and Orn, and

Y^2 is Asp, Cys, and Glu, and Y^1 also has the meaning of Y^2 , and Y^2 has the meaning of Y^1 , whereby Y^1 and Y^2 are linked to one another via a side chain, and

X^6 and X^8 are Leu,

X^7 is Val and

X^{1-5} and X^{9-14} are Ala, Val, Leu, Ile, Pro, Phe, Trp, Met, Gly, Ser, Thr, Cys, Tyr, Asn, Gln, Asp, Glu, Lys, Arg, His, Orn and Cit, whereby if X^4 stands for Glu, and X^{10} stands for Lys, the latter are linked to one another via a side chain.

5. Peptides of general formula I, according to claims 1-4, in which

Y^1 is Lys, and

Y^2 is Asp, and Y^1 also has the meaning of Y^2 , and Y^2 has the meaning of Y^1 , whereby Y^1 and Y^2 are linked to one another via a β -turn mimetic agent, and

X^{1-14} is Ala, Val, Leu, Ile, Pro, Phe, Trp, Met, Gly, Ser, Thr, Cys, Tyr, Asn, Gln, Asp, Glu, Lys, Arg, His, Orn and Cit, whereby if X^4 stands for Glu and X^{10} stands for Lys, the latter are linked to one another via a side chain.

6. Compounds of general formula I, according to claims 1-5, in which

Y^1 is Lys, and

Y^2 is Asp, and Y^1 also has the meaning of Y^2 , and Y^2 has the meaning of Y^1 , whereby Y^1 and Y^2 are linked to one another via a β -turn mimetic agent, and

X^6 and X^8 are Leu,

X^7 is Val,

X^{1-5} and X^{9-14} are Ala, Val, Leu, Ile, Pro, Phe, Trp, Met, Gly, Ser, Thr, Cys, Tyr, Asn, Gln, Asp, Glu, Lys, Arg, His, Orn and Cit, whereby if X^4 stands for Glu, and X^{10} stands for Lys, the latter are linked to one another via a side chain.

7. Peptides of general formula I, according to claims 1-6,
of the structures

Lys-Ile-Ser-Val-Ser-Tyr-Asp-Asn-Phe-Ala-Leu-Val-Asp-D-Tyr-

1 2 3 4 5 6 7 8 9 10 11 12 13 14

Leu-Val-Phe-Glu-Arg-Thr-Lys-Ser-Asp-Thr-Asp,

15 16 17 18 19 20 21 22 23 24 25

whereby the lys in 1-position is linked with the Asp in 13-
position via a side chain,

Lys-Ile-Ser-Val-Ser-Tyr-Glu-Asn-Phe-Ala-Leu-Val-Asp-D-Tyr-

1 2 3 4 5 6 7 8 9 10 11 12 13 14

Leu-Val-Phe-Glu-Lys-Thr-Lys-Ser-Asp-Thr-Asp,

15 16 17 18 19 20 21 22 23 24 25

whereby the Lys in 1-position is linked with the Asp in 13-
position, and Glu in 7-position is linked with Lys in 19-position
via a side chain, and

Lys-Ile-Ser-Val-Ser-Tyr-Glu-Asn-Phe-Ala-Leu-Val-Asp-D-Tyr-

1 2 3 4 5 6 7 8 9 10 11 12 13 14

Leu-Val-Phe-Glu-Lys-Thr-Lys-Ser-Asp-Thr-Asp,

15 16 17 18 19 20 21 22 23 24 25

whereby the Lys in 1-position is linked with the Asp in 13-position by a β -turn mimetic agent, and the Glu in 7-position is linked with Lys in 19-position via a side chain.

8. A peptide of general formula I, according to one of claims 1-7, as a pharmaceutical active ingredient.

9. A pharmaceutical composition that contains one or more peptides of general formula I, according to claims 1-7, together with pharmaceutically suitable solutions and vehicles.

10. A composition that can be administered intravenously, subcutaneously, orally or transdermally that contains one or more peptides of general formula I, according to claims 1-7, together with pharmaceutically suitable solutions, vehicles and additives.

preferred 11. Use of the peptides according to claims 1-8 and their compositions according to claims 9 and 10 or mixtures thereof, for the production of a pharmaceutical agent for treating thromboses, unstable angina, arteriosclerosis, prevention of a re-occlusion of vessels after PTCA/PTA or after thrombolysis for treating a myocardial infarction or for preventing blood clotting in the case of hemodialysis.